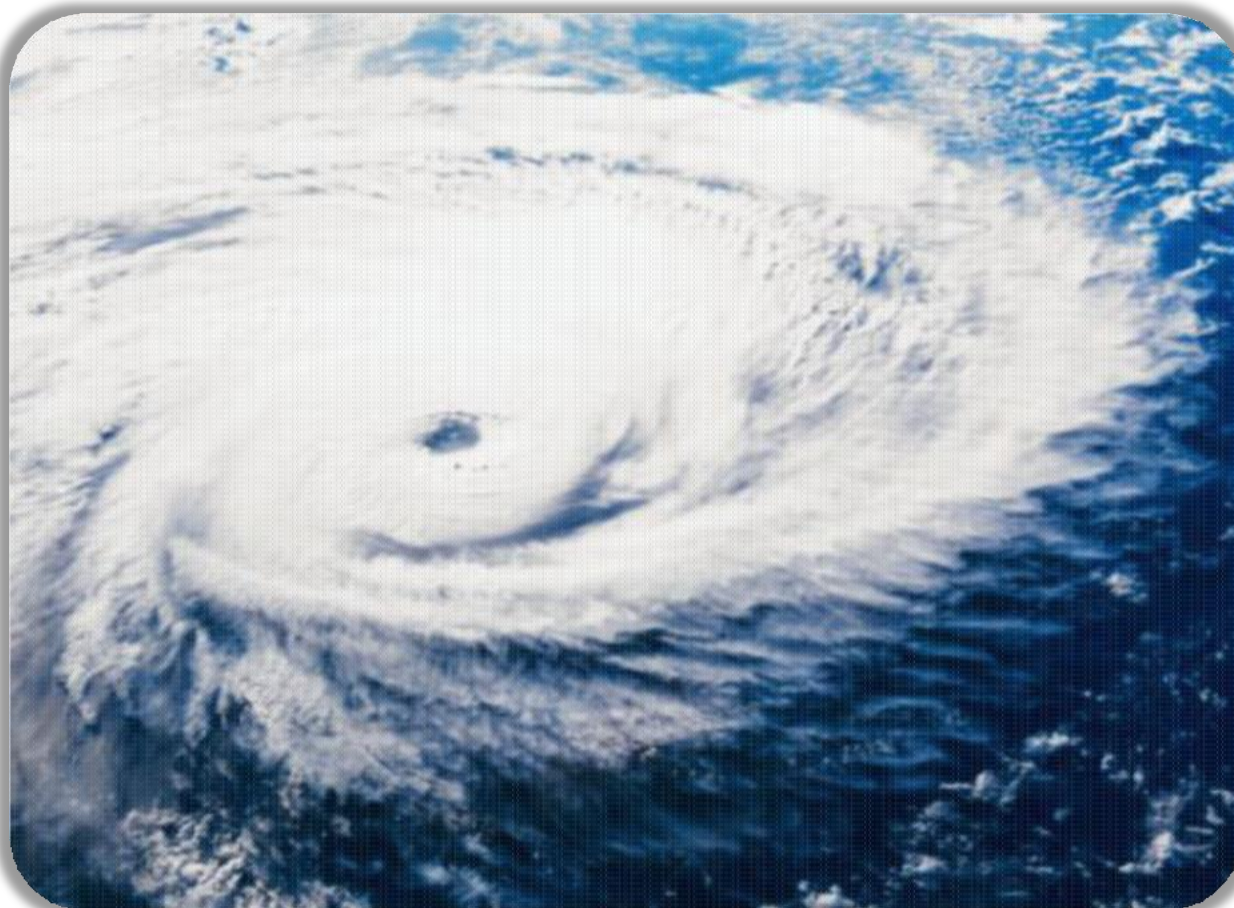




Hurricane Preparedness



Joint Base Pearl Harbor-Hickam



Emergencies Happen





Why Is Preparedness Important In Paradise?



- We live in a geographically isolated area
- We need to be self sufficient for **7 days!**
- 95% of all food and other supplies comes in via container ship
- Oahu only has about **3 day** food supply to restock stores!

Help is coming from here!

2,558

We are here!

Hawaii





Tropical Storms vs. Hurricanes



- **Tropical Depression** — A rotary circulation of clouds and winds up to 38 mph
- **Tropical Storm** — A rotary circulation of clouds and winds between 39–73 mph
- **Hurricane Watch** — Threat of hurricane conditions within 36 hours
- **Hurricane Warning** — Hurricane conditions expected within 24 hours



Hurricanes: A Dangerous Triple Threat



- High Winds
 - Mountainous terrain accelerates wind speeds
 - Winds increase on the back side of hurricane
 - Airborne debris severe injury or death
- Heavy Rains and Flash Flooding
 - Tropical storms and even a weak hurricane can bring torrential rains and flash flooding
 - TURN AROUND DON'T DROWN
- High Waves and Storm Surge
 - Greatest loss of life associated due to coastal inundation
 - Large ocean swells may reach Hawaii while hurricane is several hundred miles away



Hurricane Season



- Hurricane season in Hawaii is 1 June through 30 November
- Five major hurricanes have made landfall Hawaii since 1950
- Hurricane Iniki was the last major hurricane on 9/11/92
- Iniki caused 6 deaths and \$1.8 billion in damage





Hurricanes: Saffir-Simpson Scale



1 to 5 Scale based on intensity; each number increases by a factor of 4

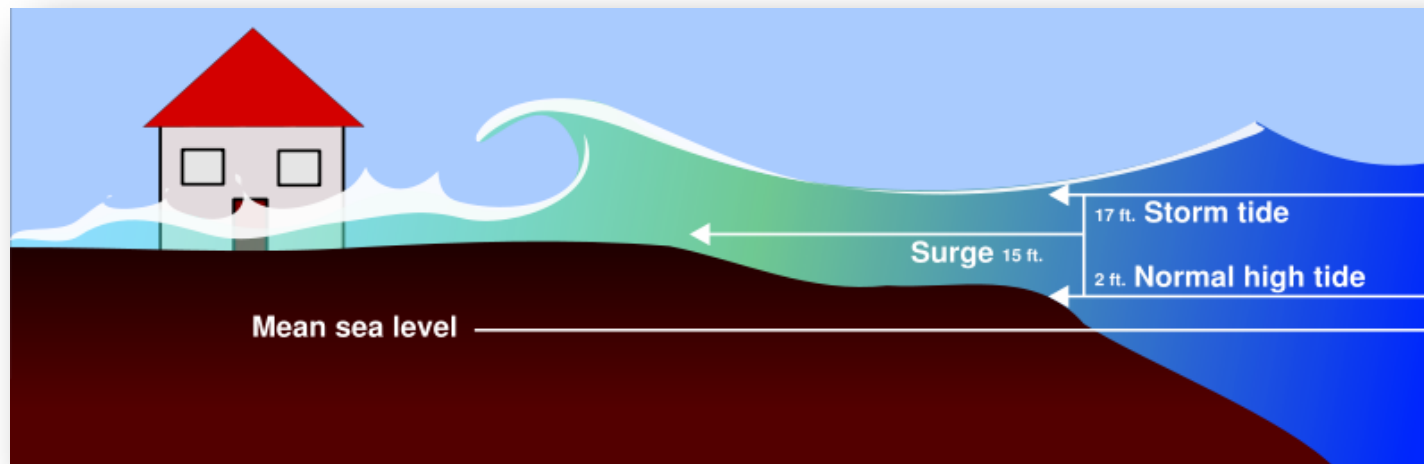
- **CATEGORY 1: Winds:** 74 to 95 mph
Damage: Minimal; signs, unanchored mobile homes, tree branches power lines blown down, some coastal flooding. Accompanied by a 4- to 5-foot storm surge.
- **CATEGORY 2: Winds:** 96 to 110 mph
Damage: Moderate; larger signs, roofs, doors, windows, mobile homes, small boats, some flooding, tree branches blown down. Area power outages for days. Accompanied by a storm surge of 6 to 8 feet.
- **CATEGORY 3: Winds:** 111 to 130 mph
Damage: Extensive; minor damage to buildings, some walls fail, mobile homes, trees blown down. Flooding washes away smaller coastal structures. Flooding up to 8 miles inland. Trees down, widespread power outages for days. A storm surge of nine to 12 feet
- **CATEGORY 4: Winds:** 131 to 155 mph
Damage: Extreme; almost total destruction of doors, windows. Some wall and roof failure. Major damage to lower floors of oceanfront buildings. Evacuations up to 6 miles inland. Power lines and poles down, power out for weeks. A storm surge of 13 to 18 feet. Hurricanes Iniki was a Category 4 storm.
- **CATEGORY 5: Winds:** More than 155 mph
Damage: Catastrophic; buildings, roofs, structures destroyed. Flooding up to 10 miles inland, evacuation of area. Power out for weeks/months. A storm surge higher than 18 feet.



Storm Surge

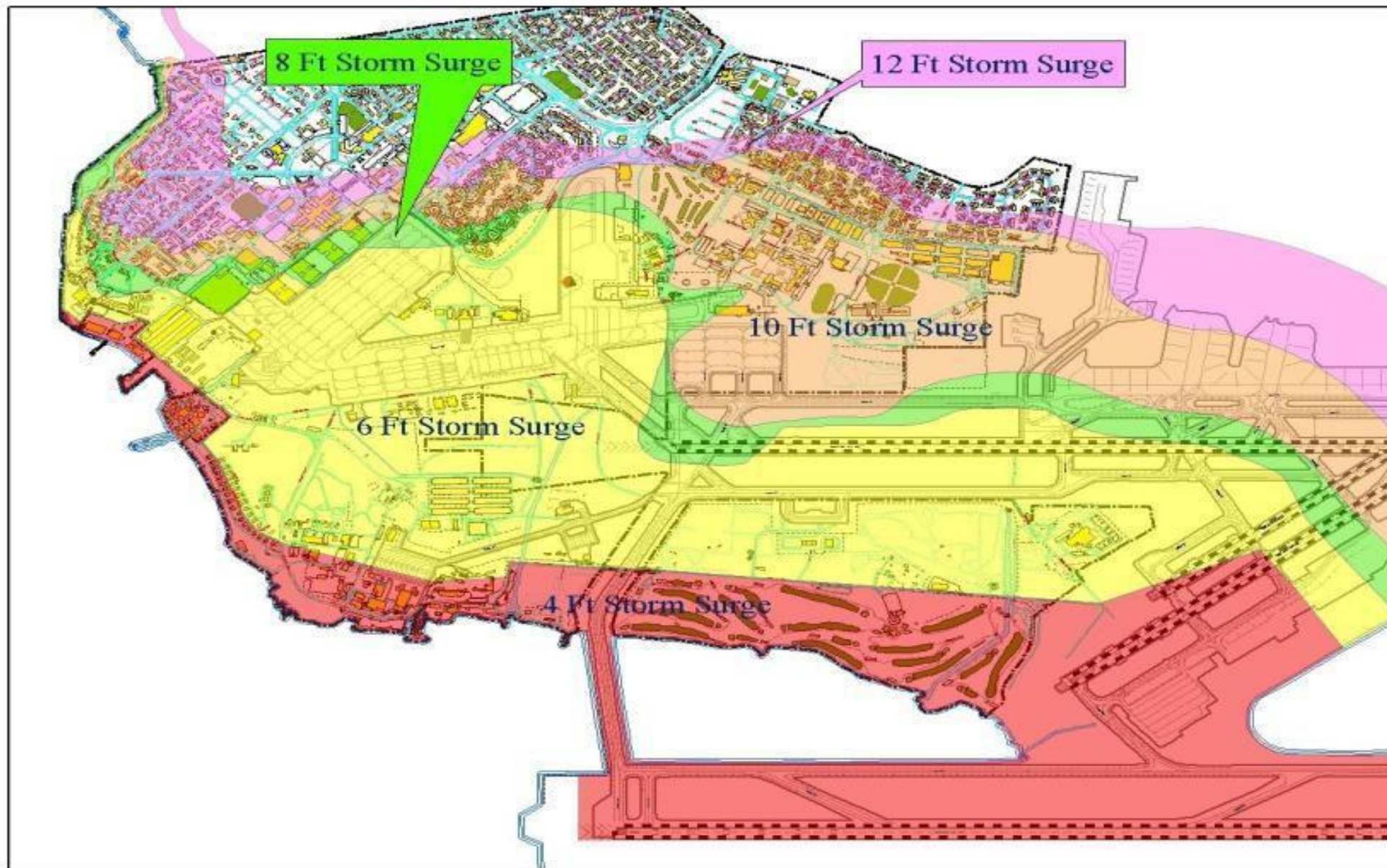


- Greatest potentially for loss of life
- Caused by hurricane force winds
- Causes severe flooding
- Can increase the tide by 15 feet
- Hurricane Iniki (CAT 4) had an 18' storm surge
- Penetrated 800+ feet inland past high water mark





Storm Surge & Flood Zones





Tropical Cyclone Conditions of Readiness (TCCOR)



- **TCCOR-5** - Hurricane season (01 JUN – 30 NOV)
 - Review your Family Emergency Plan
 - Know the location of nearest State Shelters
 - Know the JBPHH Safe Haven procedures
 - Stock your kit now... before the rush!
- **TCCOR-4** - Hurricane may arrive here in 72 hours
 - Clean around house remove missile hazards
 - Last minute shopping (your kit is fully stocked/\$250 cash on hand)
 - Fuel your vehicles (> ¾ of a tank)
- **TCCOR-3** - landfall in 48 hours
 - Ensure your plan is set
 - Prepare your homes
- **TCCOR-2** - landfall in 24 hours
 - Safe Havens open for designated JBPHH Personnel
 - Bring your Kit with you to the Safe Haven/Shelter (Don't forget your water!)
 - Top off Vehicles
- **TCCOR 1** - landfall 12 hours
 - Shelter in Place
 - If you decide to seek shelter, Ensure the Shelter you are going to is open
 - CDC's are closed or will be closing shortly
 - Preparing to secure Ford Island Bridge
- **TCCOR -1E Landfall**
 - JBPHH is in lockdown
 - Ford Island Bridge secured
 - **DO NOT GO OUTSIDE IF THE "EYE" PASSES OVERHEAD!**



Post Hurricane Landfall

“**DO**’s & **DO NOT**’s”



- **DO** Muster with your command/organization for yourself and your family (NFAAS or AFFPAAS).
- **DO NOT** Leave a safe location or return if you evacuated, stay there until you receive the “All Clear”.
- **DO** Tune in to local radio and television stations for information about caring for your household, where to find medical help, how to apply for assistance, etc.
- **DO NOT** Go near downed power lines and **DO** report them to the power company.
- **DO NOT** Drink or prepare food with tap water until you are notified by officials that it is safe to do so.



Post Hurricane Landfall

“**DO**’s & **DO NOT**’s”



- **DO** Stay away from disaster areas unless authorities request volunteers.
- **DO NOT** Drive unless it is absolutely necessary and avoid flooded roads and washed-out bridges.
- **DO** Check on neighbors and provide assistance and call for help if necessary.
- **DO NOT** Tie-up telephone or cell systems with unnecessary calls reserve the system for emergencies.
- **DO** Enter your home with caution. Be aware of insects and animals driven to higher ground by the floodwaters and potential pollutants/sewage in floodwaters.
- **DO** Talk to your children about what happened and what they can do to help.



You Must Be Ready



Flood
Hurricane
Disease Outbreak



May have time to
prepare or evacuate

Power Outage
Chemical Spill
Terrorist Strike



Could have little
time to respond

Unless you are prepared for an emergency, your family could be without food, water, and even medicine, for a number of days.



Be Informed



- Resources are available
 - Handouts
 - JBPHH “Are You Ready Guides” & Tri-folds
 - Be Ready Air Force at www.beready.af.mil
 - Ready Navy at www.ready.navy.mil
 - FEMA at www.ready.gov
 - Other Web sites
 - Hawaii State Civil Defense at www.scd.hawaii.gov
 - Training courses
 - CPR/First Aid
 - News articles



State of Hawaii Shelters



- State and City & County of Honolulu Shelters
 - Locations of all state shelters can be found at <http://www.scd.state.hi.us/>
 - All Schools in State of HI are Shelters
 - **NOTE:** Not all schools will be open!
 - Specific shelters are set up for special needs populations and to receive pets
 - Pets must have supplies and be in hard sided kennel
 - Monitor the State CD website and radio/TV for opening times/locations of local shelter as not all schools will open as shelters
 - Ensure you bring your Emergency Kit and water with you





JBPHH Safe Havens



- JBPHH can provide Safe Haven for designated population
 - Limited to on base population under **MANDATORY** evacuation from their homes due to potential storm surge
 - Safe Havens do not have provisions for long term care and feeding, **BRING YOUR EMERGENCY KIT & WATER**
 - JBPHH Safe Haven Muster Location
 - Muster area will be at Makai Rec Center
 - Your POV will remain at the NEX / AFEES parking lot
 - Bring your Emergency Kit and Water
 - Pets must be in hard sided carrier with food and water
 - Assignment will be made for families in BEQ's



Wide Area Alert Network (WAAN)

- DoDI 6055.17 Installation Emergency Management (IEM) Program Encl 6 2.b(d) Mass Warning and Notification. (Change 1, 19 NOV 2010)
 - 1. *All DoD installations, shall maintain mass warning and notification capabilities to warn all personnel immediately, but no longer than 10 minutes after incident notification and verification.*
- Meet this requirement with two systems
 - Giant Voice (GV) System
 - Sirens and voice in conjunction with HI state test on 1st working day of the month at 11:45 AM
 - Computer Desktop Notification System (CDNS)
 - Alerts are initiated by Installation Emergency Personnel.



Have A Plan!



Family Emergency Plan



Family Communication Plan



Have A Plan: Family Readiness



- **Create a family Emergency Plan**
- **Set up a safe spot in your home, an interior bathroom or under stairs storage area to SIP**
- **Rally Points - where will your family reunite if separated**
- **Keep a list of emergency phone numbers**
- **Know your child's school plan**
- **Develop an Emergency Kit for work, car, and home**
- **First Aid/CPR classes**





Have A Plan: Discuss Your Options



- Temporarily shelter-in-place
- Evacuate to local shelter
 - Don't wait for the last minute
- Move to a safe haven if directed





Have A Plan: Communications



- Know contact information
- Make emergency contact cards
- Designate an out of state relative as a family focal point so you only have to make ONE call.
- Remember text messages may go through when cell calls will not
- VOIP fails without electricity or cable service
- Conduct a dry run





Make A Kit



Recommended supplies for basic emergency kit:

- Water- 1 GAL/person/day for at least **7** days
- Nonperishable food for at least **7** days
- Manual can opener
- First aid kit
- Prescription medications
- Dust masks
- Personal sanitation supplies such as moist towelettes, garbage bags, and plastic ties
- Flashlight & extra batteries
- Battery powered or hand crank radio with NOAA Weather channel
- Money - \$250 cash
- Wrench or pliers to turn off utilities
- Local maps and your evacuation plan
- Family communications plan
- Other plans and any important documents
- Kits for work and car
- Pet supplies





Report Your Status



- **During and/or following an emergency, you are required to report your status to your command to ensure all members of the Air Force family are accounted for.**
- **When disaster strikes, take the following actions:**
 - Shelter in place or go to a shelter or safe haven as directed
 - Report your status
 - Follow the command's established procedures to report your location, even if your sponsor is deployed
 - Air Force Personnel Accountability and Assessment System (AFPAAS) <https://afpaas.af.mil> or
 - Contact the AF Personnel Readiness Center at 1800-435-9941 to account for yourself and your family members, and to complete a Needs Assessment to identify issues requiring immediate assistance.



DON'T LET THIS BE YOU!





Questions?



REMEMBER: ✓ Be Informed ✓ Have a Plan ✓ Make a Kit

- Emergency Public Information (EPI)
 - Use your Chain of Command
 - JBPHH “Straight Talk” Line (808) 421-4000
 - Recorded message with updated EPI
 - JBPHH Facebook will have updated EPI
 - Local Media
 - HAWAII NEWS NOW: KFVE/KGMB/KHNL
 - Radio Stations AM 590, 690, FM 92.3, FM107.9

FOR IMMEDIATE EMERGENCIES: DIAL 911!